



ROKO Twister Tray Instructions.

Thank you for your purchase of a tool that will expand the capabilities of your Thunder Bolt Laser to give you a wider range of uses both in rotaries and chuck style devices for engraving tumblers. This tray was designed with the intention of providing more flexibility of your Bolt. The twister tray provides 6.5"-7" of Z clearance for projects that are much taller than you could engrave with a standard 4.3" Z depth on the Thunder Bolt.

**Computer Creations/z assumes NO liability for the use of this tool, use at your own risk!
Please handle this aluminum tray with care. There may be sharp edges!**

Rotobolt Use

If you're using the Rotobolt rotary from Thunder laser no modifications are needed to use this tray. This tray will provide you with the ability to engrave larger tumblers and tumblers with handles.

PiBurn Grip for Thunder Lasers

If you're using a piBurn Grip made your Thunder Nova Series Co2 laser, please consult Lens Digital at Lensdigital.com to discuss what is needed for your grip to fit in the ROKO Twister Tray. Two known areas of modification to your current grip are 1. shorter main rail length, 2. The connection box on the grip stepper motor will need to be rotated 90 Degrees to provide vertical clearance required to use the PiBurn grip into the ROKO Twister Tray.

If you ordered a PiBurn Grip specifically for the Thunder Bolt, it will fit great in this tray!

Installation instructions on placing your tray into the Bolt Laser, 2 Methods listed.

Method 1

Be sure the logo and tray name are towards the back of the laser! The carriage bolts should be at the front of the laser.

Do not install the tray from the top of the laser, until you are familiar with the use of this tray. There is a much greater chance of hitting the laser head! Drop your Z table by using the down arrow on the bolt controller. Lower the Z at least $\frac{3}{4}$ of the way down, remove the honeycomb tray by lifting on the tray and pulling out from the front of the laser not the top. This is a much safer way to remove the honeycomb and install the RoKo Twister Tray.

Once you have the tray installed be sure the tray is pulled all the way forward. It fits loose in the frame for a reason, if you lower the z all the way down the tray will hit the roller covers on

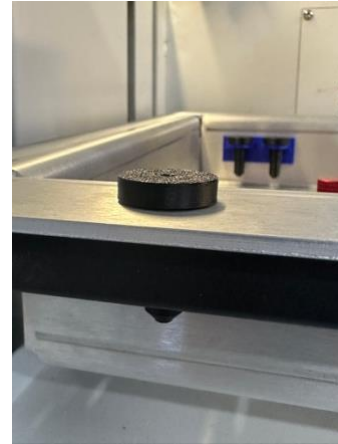
the drop out tray on the back side. Due to the roller covers on the drop out tray being a little inconsistent there may be conflict the last 1/4" of the z movement. Keep an eye on the back of the twister tray when dropping the z all the way down.



(Optional) The ability to secure your twister tray with supplied 1/4" carriage bolts and wing nuts. Insert provided carriage bolts in the holes in front of the tray and secure to the honeycomb frame with supplied washers and wingnuts, **do not over tighten!** This eliminates any movement of the tray when engraving. This provides confidence that you won't move the tray when changing tumblers.

Method 2

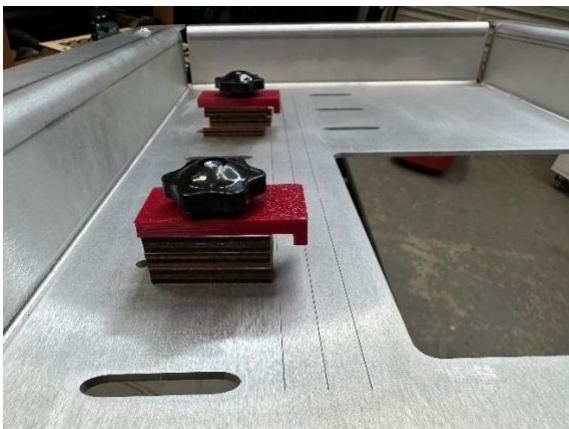
This method should only be used once you're completely familiar with your Twister Tray and understand that this method has some risk involved! This method will greatly increase the speed at which you can set up your rotary. Mount the Rotary in the Twister Tray before you install the tray into the Bolt. Grab the tray and rotary with one hand in the opening in the middle of the tray, grab it firmly, it can be heavier than you think! Then very carefully angle the tray downward so the back is lower than the front and slowly slide the tray into place missing the laser head and set the tray and rotary in place. Do this very slowly and at your own risk! Computer Creations/z assumes no liability if you damage your laser head by installing your twister tray in this manner!



Using the provided black push pins(optional) instead of the carriage bolts to secure the twister tray. You may have to lift the top of the tray just a little in order for the push pins to fall into place. This method is completely optional and was designed for more convenient way to secure the tray. The recommended pin holder location is top left corner of the tray. Due to variations in the manufacturing of the laser, tray, pins they may not fit! In this case please use the carriage bolts provided.

Using the horizontal alignment guides in your ROKO Twister Tray

1. Be sure your ROKO Twister Tray is pulled all the way forward as this indexes the tray with the honeycomb frame and puts the horizontal lines cut into the tray parallel with the gantry. This will provide you with a guide to rotary/chuck alignment. Now verify if you need further adjustment to ensure your setup is truly parallel with the gantry. **DO NOT** assume the lines on this tray are truly parallel with the laser gantry. These alignment lines are meant to get you in the ballpark for rotary alignment!



Warning: Rotary/chuck power cord conflict possibility with the ROKO Twister Tray! Please see red stickers on the right-hand side of the twister tray.

It is recommended when using the ROKO Twister Tray to autofocus your tumbler first BEFORE you plug in your rotary device into the bolt. This way you eliminate the possibility of a conflict between the tray and the rotary connection into the laser.

ROKO Twister Tray Features.

- Made from durable 5052 Aluminum, It won't corrode.
- You're able to store your rotary in this tray in the laser without issue.
- Cup handle cutout for Rotobolt rotary. This opening allows the user to be able to engrave cups and tumblers with handles which is not possible when installed on the honeycomb tray. Also functions as a hand hold when installing the twister tray from the top.
- Honeycomb replacement that expands the current 4.3" Z clearance to 7" of total Z depth for taller projects. 7" with the honeycomb removed, 6.5" with the honeycomb installed.
- Repeatable setup for faster process time, by using the horizontal score lines. You can install your rotary/chuck then align the main rail to the horizontal lines and get very close to final setup alignment. (Assuming your Twister Tray is all the way forward and bolted in place with provided 1.25" ¼" carriage bolts, washers and wing nuts.
- Adjustment slots are provided in different parts of the tray. These slots are placed to provide many hold down options for rotaries and Chuck style tools. Having 2 hold downs attached to the front side of the main rail of the rotary/chuck tools seems to work best.
- Horizontal adjustment slots on the right side of the Twister Tray are provided to help support the head rail of the rotary/chuck. This feature may not be needed depending on the rotary/chuck set up. These slots and blocks can be used to secure taller flat work as well.
- Advanced use, only use this option after you're completely comfortable with how the tray functions. Install your rotary outside the laser on the twister tray and install both the twister tray and the rotary in one installation. Be sure to watch the Installation and Use video that is listed with QR code on this document.

Thank you for your purchase, we know you have options for your laser tools. It's important to us to make sure you're happy! if you have any questions, please reach out to us at Computercreations@charter.net

Computer Creations Facebook Business Link



ROKO Twister Tray Installation & Use

